

| Ref # | Hits    | Search Query    | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|---------|-----------------|---|------------------|---------|------------------|
| L1    | 160     | (713/184).CCLS. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/01/31 20:14 |
| L2    | 147     | (705/72).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/01/31 20:14 |
| L3    | 335     | (705/75).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/01/31 20:17 |
| L4    | 0       | ("random").PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/01/31 20:17 |
| L5    | 554461  | random          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/01/31 20:17 |
| L6    | 1553607 | password or pin | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/01/31 20:17 |
| L7    | 479     | TPIN            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/01/31 20:17 |
| L8    | 66197   | 5 and 6         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | OFF     | 2005/01/31 20:18 |

|     |         |                                |   |    |     |                  |
|-----|---------|--------------------------------|---|----|-----|------------------|
| L9  | 7015    | 8 and formula                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:18 |
| L10 | 13      | 8 and (arithmetic adj formula) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:18 |
| L11 | 1032535 | operator or operand            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:18 |
| L12 | 20184   | 11 and 8                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:18 |
| L13 | 20184   | 12 and 5                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:18 |
| L14 | 86316   | "15" and identifier            | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:19 |
| L15 | 8859    | screen and 13                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:19 |
| L16 | 2943    | 15 and identifier              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:19 |

|     |         |                             |   |    |     |                  |
|-----|---------|-----------------------------|---|----|-----|------------------|
| L17 | 741     | 16 and digit                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:20 |
| L18 | 167     | 17 and authenticate         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:20 |
| L19 | 213     | 17 and (login or logon)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:20 |
| L20 | 727     | 17 and access               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:20 |
| L21 | 192     | 20 and ATM                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:27 |
| L22 | 1950134 | formula or equation         | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:27 |
| L23 | 211644  | (PIN or TPIN or access).ti. | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:27 |
| L24 | 15405   | (formula or equation).ti.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:27 |

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|-----|-------|---|---|----|-----|------------------|
| L25 | 39    | 23 and 24   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:28 |
| L26 | 17    | password.ti. and logic.ti.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:28 |
| L27 | 232   | pin.ti. and logic.ti.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:28 |
| L28 | 4     | pin.ti. and computation.ti.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:28 |
| L29 | 17    | pin.ti. and calculation.ti.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:28 |
| L30 | 8     | pin.ti. and compute.ti.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2005/01/31 20:29 |
| S1  | 35192 | (password or PIN) and random and (function or expression or equation or formula)  | USPAT;<br>EPO;<br>DERWENT   | OR | ON  | 2005/01/31 20:13 |
| S2  | 18964 | ((password or PIN) and random and (function or expression or equation or formula)) and user   | USPAT;<br>EPO;<br>DERWENT   | OR | ON  | 2003/12/01 10:38 |
| S3  | 11504 | ((password or PIN) and random and (function or expression or equation or formula)) and user and (saved or register or registration) | USPAT;<br>EPO;<br>DERWENT   | OR | ON  | 2003/12/01 10:39 |

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|-----|------|---|-------------------------------------|----|-----|------------------|
| S4  | 6644 | ((((password or PIN) and random and (function or expression or equation or formula)) and user) and (saved or register or registration)) and (ID or identification)  | USPAT;<br>EPO;<br>DERWENT           | OR | ON  | 2003/12/01 10:39 |
| S5  | 6629 | ((((password or PIN) and random and (function or expression or equation or formula)) and user) and (saved or register or registration)) and (ID or identification)) and (presented or displayed or shown or presents or displays or shows)  | USPAT;<br>EPO;<br>DERWENT           | OR | ON  | 2003/12/09 10:44 |
| S6  | 511  | ((((((password or PIN) and random and (function or expression or equation or formula)) and user) and (saved or register or registration)) and (ID or identification)) and (presented or displayed or shown or presents or displays or shows)) and (user adj ID)                   | USPAT;<br>EPO;<br>DERWENT           | OR | ON  | 2003/12/01 10:41 |
| S7  | 174  | (((((((password or PIN) and random and (function or expression or equation or formula)) and user) and (saved or register or registration)) and (ID or identification)) and (presented or displayed or shown or presents or displays or shows)) and (user adj ID)) and @py<="1999" | USPAT;<br>EPO;<br>DERWENT           | OR | ON  | 2003/12/01 10:42 |
| S8  | 2    | ("5321755").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/01 10:43 |
| S9  | 2    | ("5311594").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/01 10:43 |
| S10 | 2    | ("5276314").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/01 10:44 |
| S11 | 2    | ("5239583").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/01 10:45 |
| S12 | 2    | ("5233655").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/09 10:44 |

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| S13 | 2    | ("5196840").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/01 10:47 |
| S14 | 2    | ("5168520").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/01 10:47 |
| S15 | 2    | ("5163097").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/01 10:48 |
| S16 | 2    | ("5161190").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/09 10:44 |
| S17 | 5587 | PIN near8 logic   | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/01 10:49 |
| S18 | 3913 | PIN near4 logic   | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/01 10:49 |
| S19 | 1414 | (PIN near4 logic) and random  | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/01 10:50 |
| S20 | 577  | ((PIN near4 logic) and random) and (calculate or compute or solve)                  | USPAT;<br>EPO;<br>DERWENT           | OR | ON  | 2003/12/01 10:50 |
| S21 | 927  | ((PIN near4 logic) and random) and @py<"1999"                                       | USPAT;<br>EPO;<br>DERWENT           | OR | ON  | 2003/12/01 10:50 |
| S22 | 392  | (((PIN near4 logic) and random) and (calculate or compute or solve)) and @py<"1999" | USPAT;<br>EPO;<br>DERWENT           | OR | ON  | 2003/12/09 10:43 |
| S23 | 2    | ("3587051").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/09 10:45 |
| S24 | 4    | ("4032931").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/01 10:52 |
| S25 | 4    | ("4333090").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/01 10:57 |
| S26 | 2    | ("4502048").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/01 10:57 |

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| S27 | 2      | ("4852165").PN.  | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/01 10:57 |
| S28 | 0      | ("PIN and (equation or formula or expression or function and random)").PN.   | USPAT;<br>USOCR;<br>EPO;<br>DERWENT | OR | OFF | 2003/12/09 10:46 |
| S29 | 52723  | PIN and (equation or formula or expression or function and random)   | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/09 10:47 |
| S30 | 23928  | (PIN and (equation or formula or expression or function and random)) and random  | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/09 10:47 |
| S31 | 52723  | (PIN and (equation or formula or expression or function and random)) and py<"1999"   | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/09 10:47 |
| S32 | 34305  | (PIN and (equation or formula or expression or function and random)) and @py<"1999"  | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/09 10:48 |
| S33 | 14385  | ((PIN and (equation or formula or expression or function and random)) and @py<"1999") and ((PIN and (equation or formula or expression or function and random)) and random)  | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/09 10:49 |
| S34 | 14385  | (((PIN and (equation or formula or expression or function and random)) and @py<"1999") and ((PIN and (equation or formula or expression or function and random)) and random)) and random   | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/09 10:49 |
| S35 | 1403   | (((PIN and (equation or formula or expression or function and random)) and @py<"1999") and ((PIN and (equation or formula or expression or function and random)) and random)) and random) and solve                              | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/09 10:50 |
| S36 | 1357   | ((((PIN and (equation or formula or expression or function and random)) and @py<"1999") and ((PIN and (equation or formula or expression or function and random)) and random)) and random) and solve) and (function or equation) | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/09 10:51 |
| S37 | 138368 | (function or equation or expression or formula).ti.  | USPAT;<br>EPO;<br>DERWENT           | OR | OFF | 2003/12/09 10:53 |

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|-----|--------|--|---------------------|----|-----|------------------|
| S38 | 320    | ((function or equation or expression or formula).ti.) and PIN.ti.  | USPAT; EPO; DERWENT | OR | OFF | 2003/12/09 10:57 |
| S39 | 4      | (((function or equation or expression or formula).ti.) and PIN.ti.) and random   | USPAT; EPO; DERWENT | OR | OFF | 2003/12/09 10:54 |
| S40 | 31     | "5163097"  | USPAT; EPO; DERWENT | OR | OFF | 2003/12/09 10:55 |
| S41 | 685    | ((function or equation or expression or formula).ti.) and random.ti.   | USPAT; EPO; DERWENT | OR | OFF | 2003/12/09 10:57 |
| S42 | 499    | (((function or equation or expression or formula).ti.) and random.ti.) and @py<"1999"  | USPAT; EPO; DERWENT | OR | OFF | 2003/12/09 10:59 |
| S43 | 715778 | (((function or equation or expression or formula).ti.) and random.ti.) and @py<"1999") and password or PIN                                   | USPAT; EPO; DERWENT | OR | OFF | 2003/12/09 11:00 |
| S44 | 8      | (((function or equation or expression or formula).ti.) and random.ti.) and @py<"1999") and (password or PIN or passcode or (entry adj code)) | USPAT; EPO; DERWENT | OR | OFF | 2003/12/09 11:00 |
| S45 | 191    | (713/182).CCLS.  | USPAT; USOCR        | OR | OFF | 2004/05/19 13:25 |
| S46 | 181    | (713/183).CCLS.  | USPAT; USOCR        | OR | OFF | 2004/05/19 13:25 |
| S47 | 102    | (713/184).CCLS.  | USPAT; USOCR        | OR | OFF | 2004/05/19 13:25 |
| S48 | 227    | (713/185).CCLS.  | USPAT; USOCR        | OR | OFF | 2004/05/19 13:25 |
| S49 | 150    | (713/186).CCLS.  | USPAT; USOCR        | OR | OFF | 2004/05/19 13:25 |
| S50 | 557    | (713/202).CCLS.  | USPAT; USOCR        | OR | OFF | 2004/05/19 13:25 |
| S51 | 398480 | Operand or operator  | USPAT               | OR | OFF | 2004/05/19 13:25 |
| S52 | 482501 | PIN  | USPAT               | OR | OFF | 2004/05/19 13:25 |
| S53 | 107143 | (Operand or operator) and PIN  | USPAT               | OR | OFF | 2004/05/19 13:25 |
| S54 | 97282  | ((Operand or operator) and PIN) and (computer or calculate or algorithm or formula or operation)   | USPAT               | OR | OFF | 2004/05/19 13:26 |
| S55 | 7929   | PIN.ti.  | USPAT               | OR | OFF | 2004/05/19 13:26 |
| S56 | 23     | PIN.ti. and (personal adj identification adj number)   | USPAT               | OR | OFF | 2004/05/19 13:26 |
| S57 | 3825   | personal adj identification adj number   | USPAT               | OR | OFF | 2004/05/19 13:26 |

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|-----|------|--|-------|----|-----|------------------|
| S58 | 3149 | (personal adj identification adj number) and PIN                             | USPAT | OR | OFF | 2004/05/19 13:27 |
| S59 | 1410 | ((personal adj identification adj number) and PIN) and (Operand or operator) | USPAT | OR | OFF | 2004/05/19 13:27 |